

FIG. 1

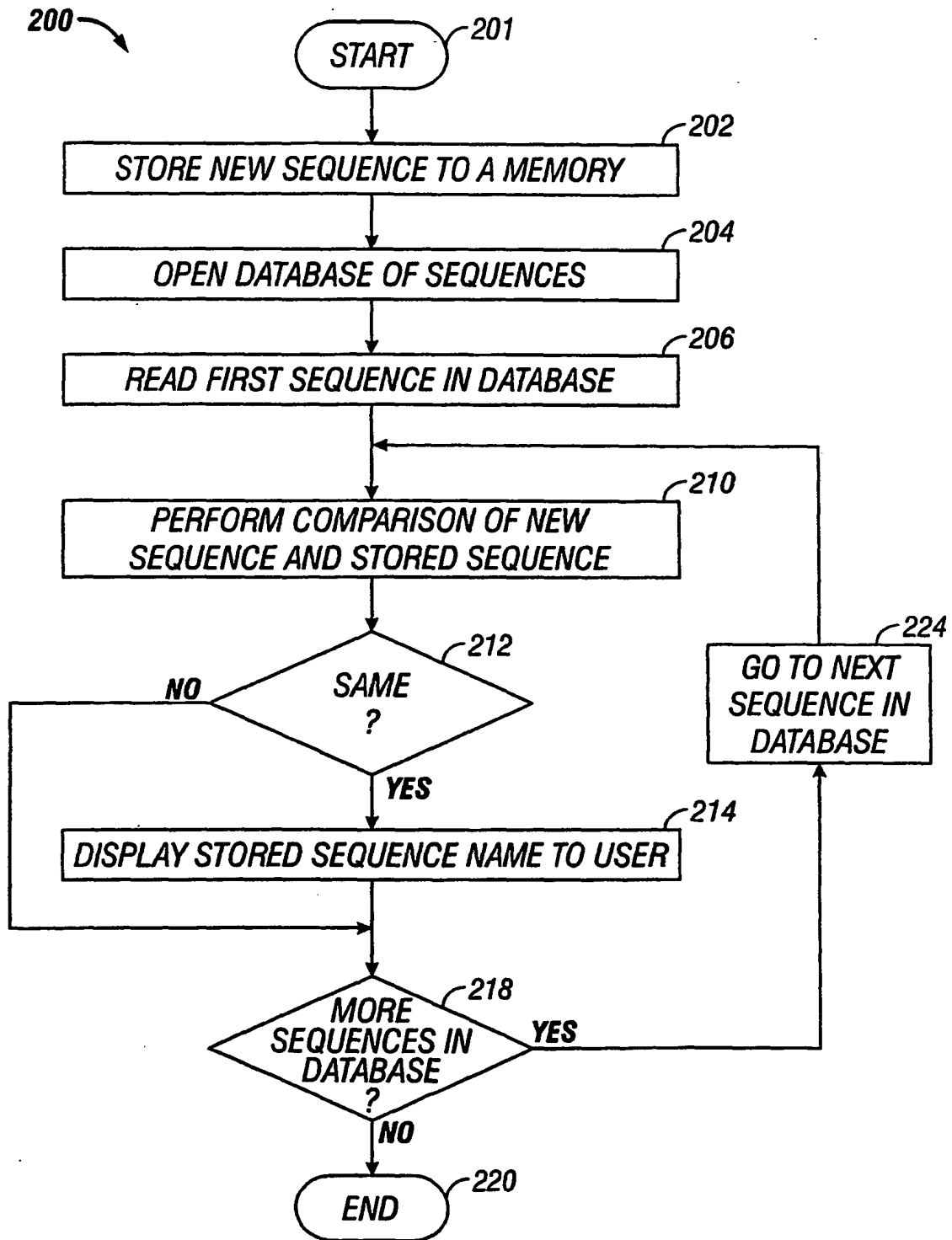


FIG. 2

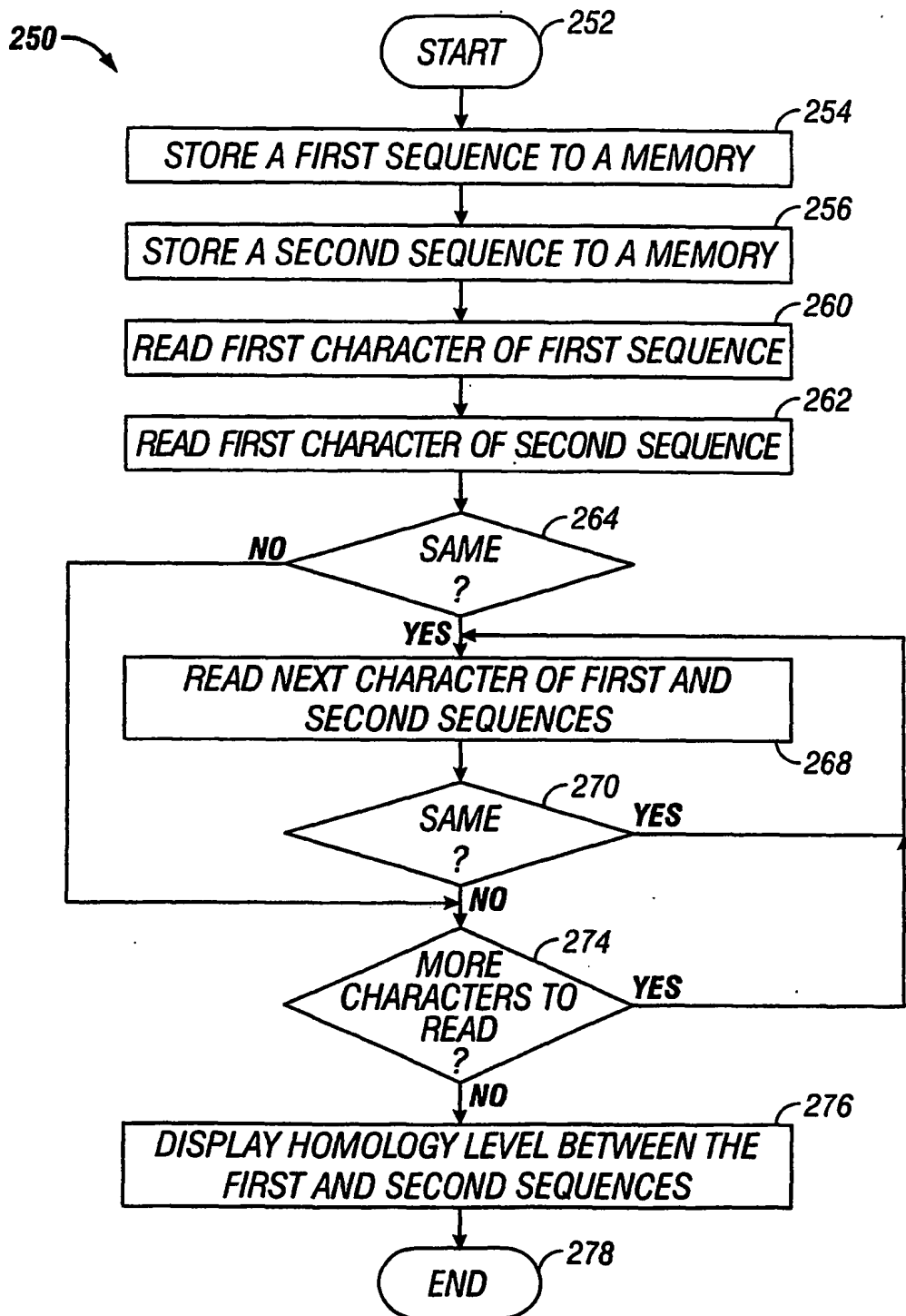


FIG. 3

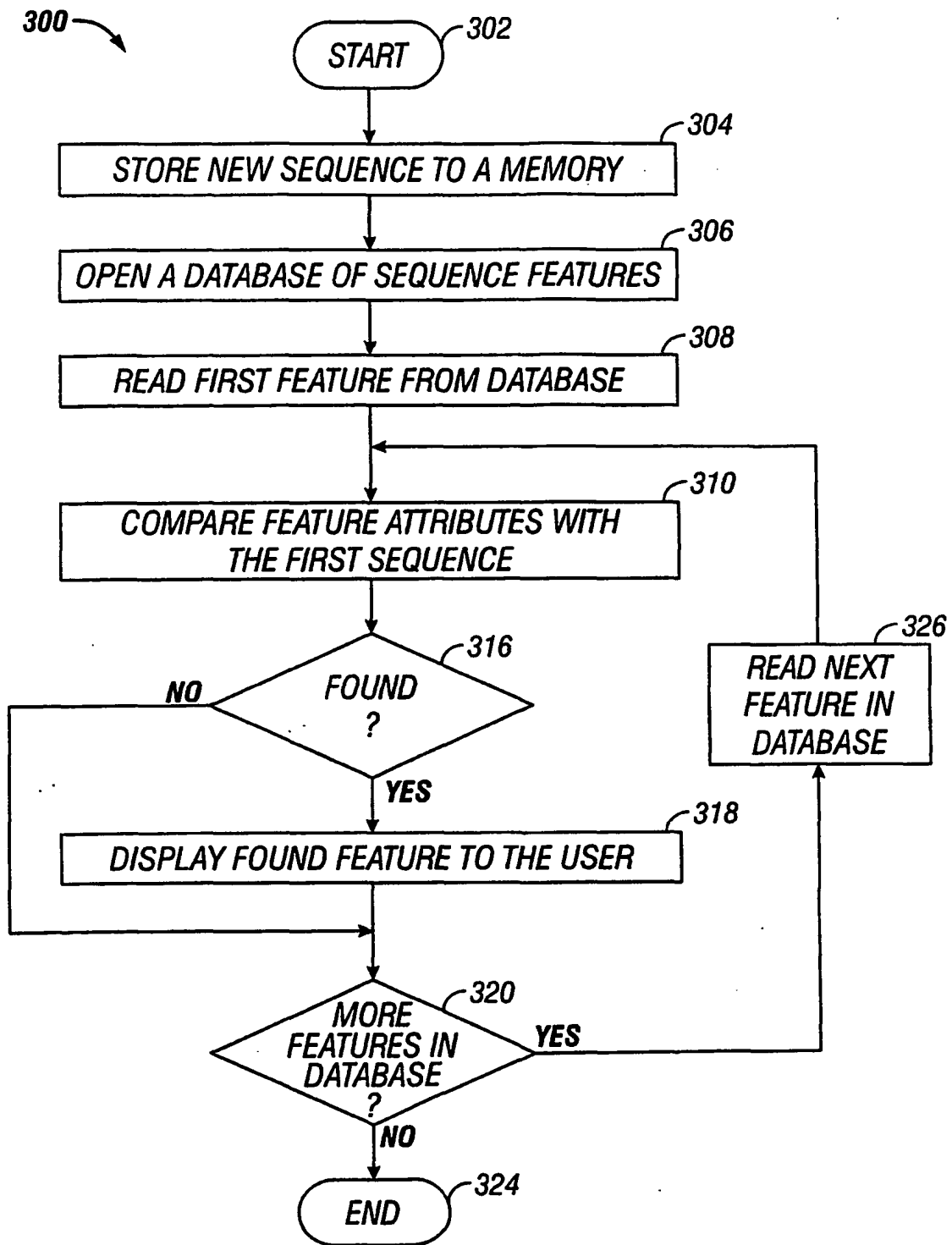


FIG. 4

**Figure 5: Thermal Tolerance of Wild-type Xylanase
(SEQ ID NOS:189 and 190)
vs. 8x Mutant**

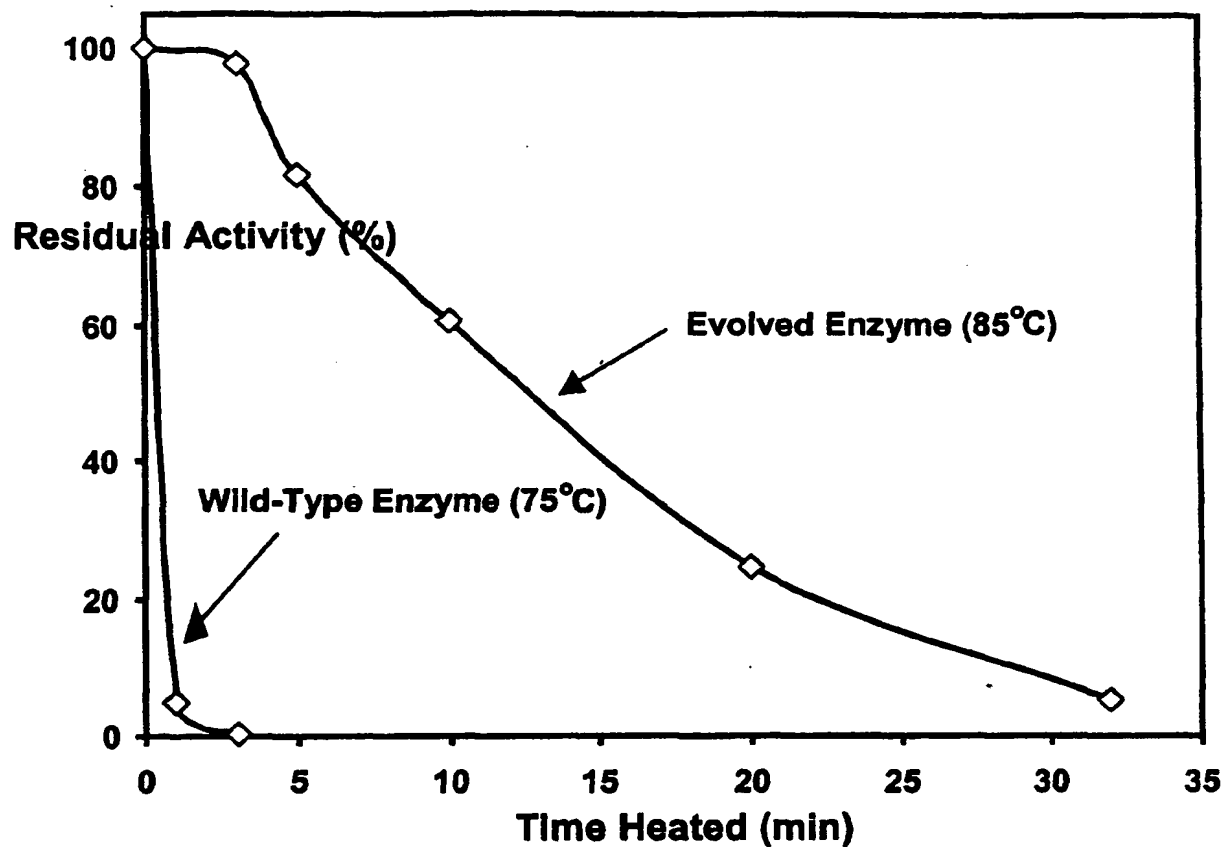
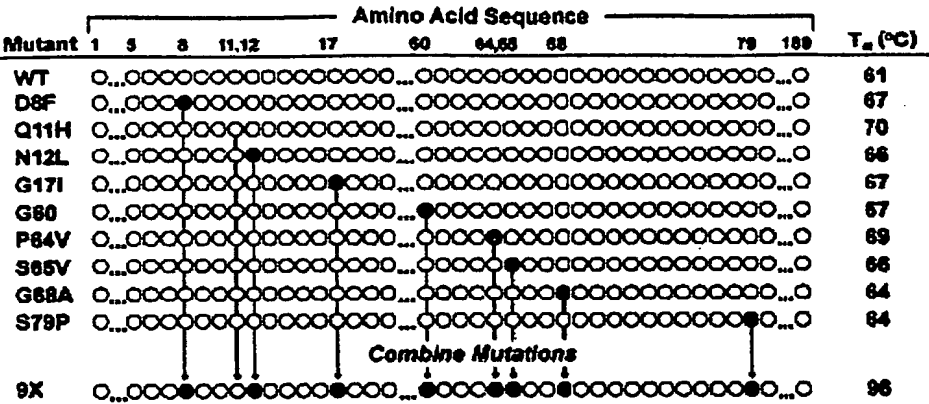


Figure 6

A



B

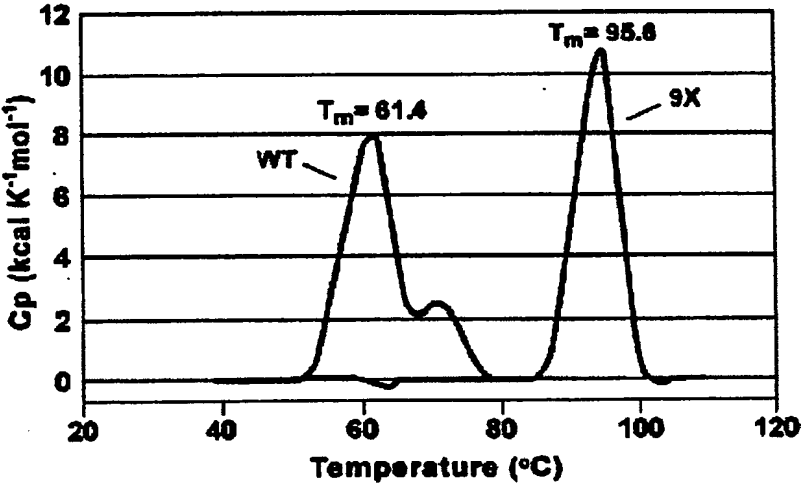




Figure 7

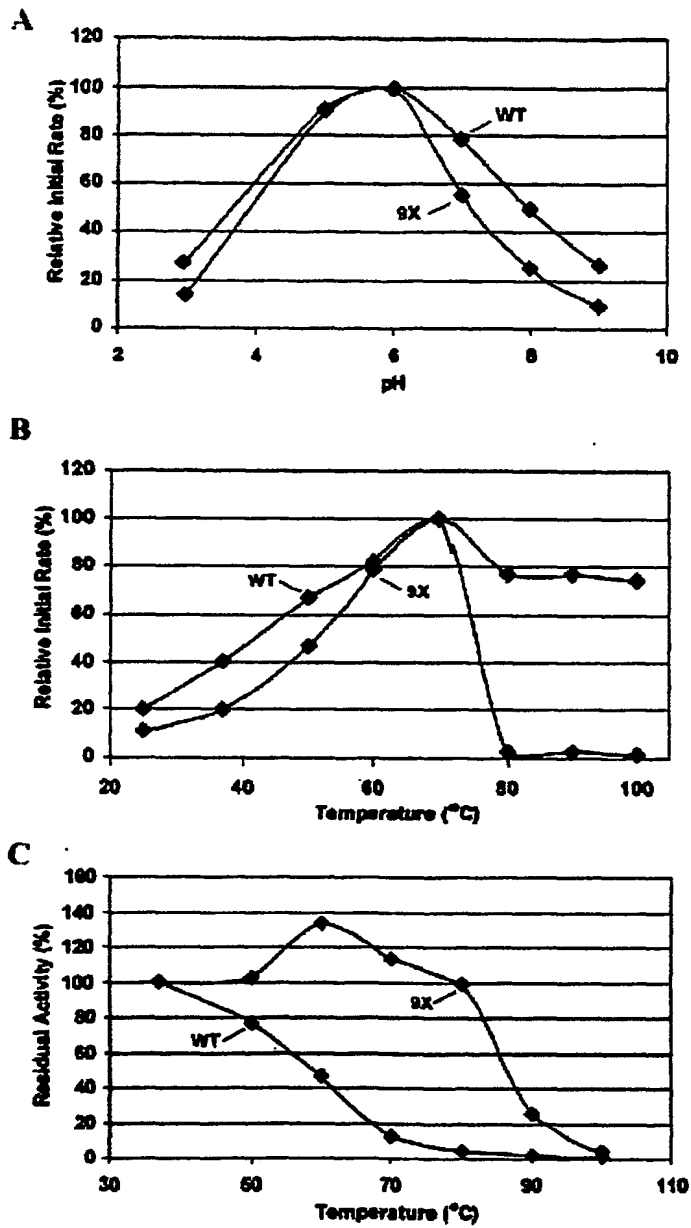


Figure 7

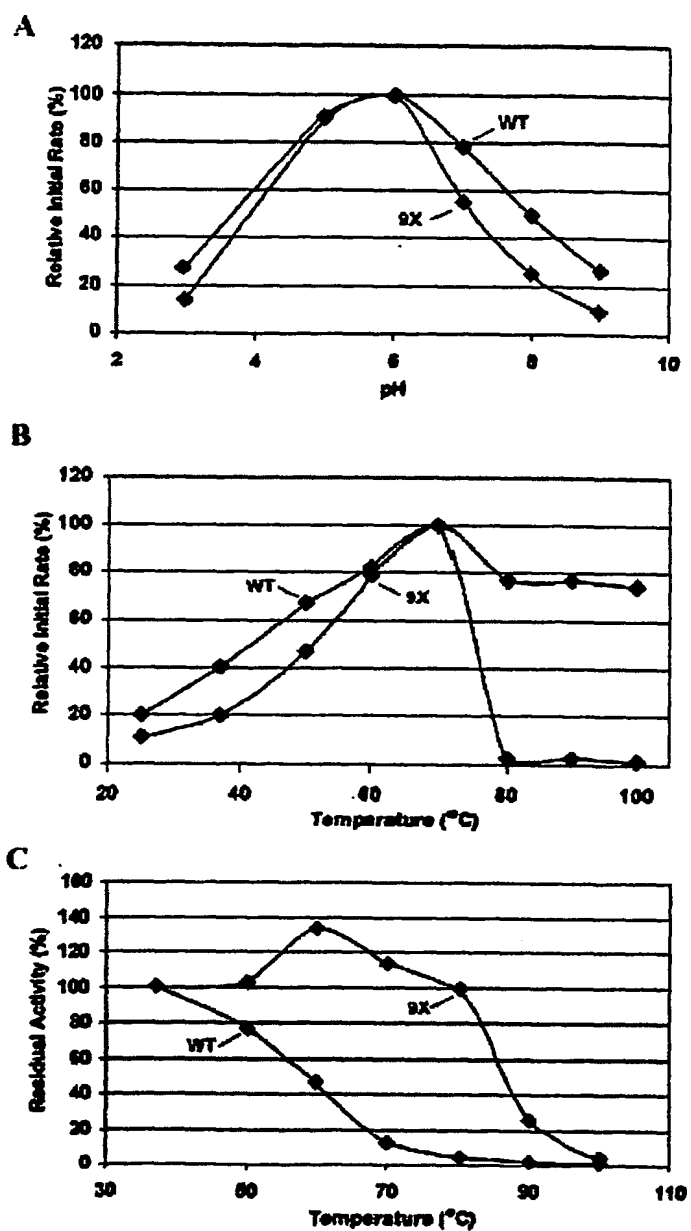
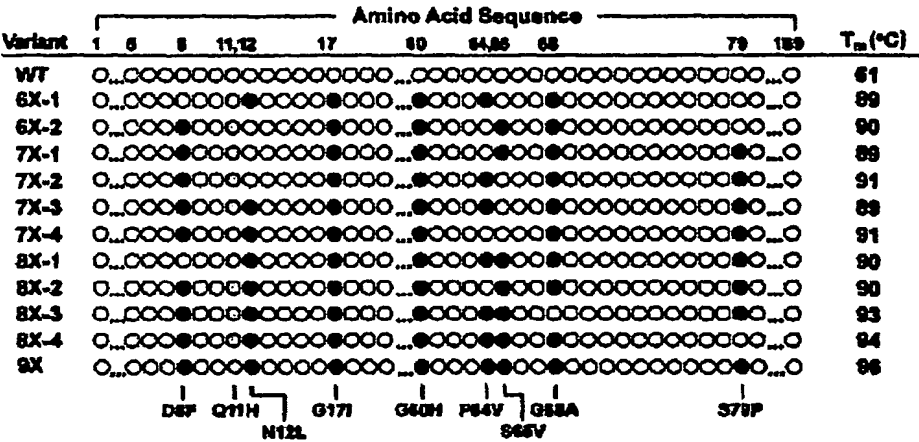
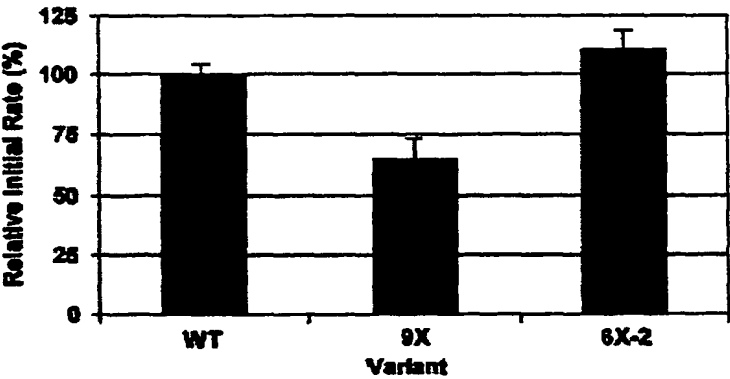


Figure 8

A



B



A



Figure 9

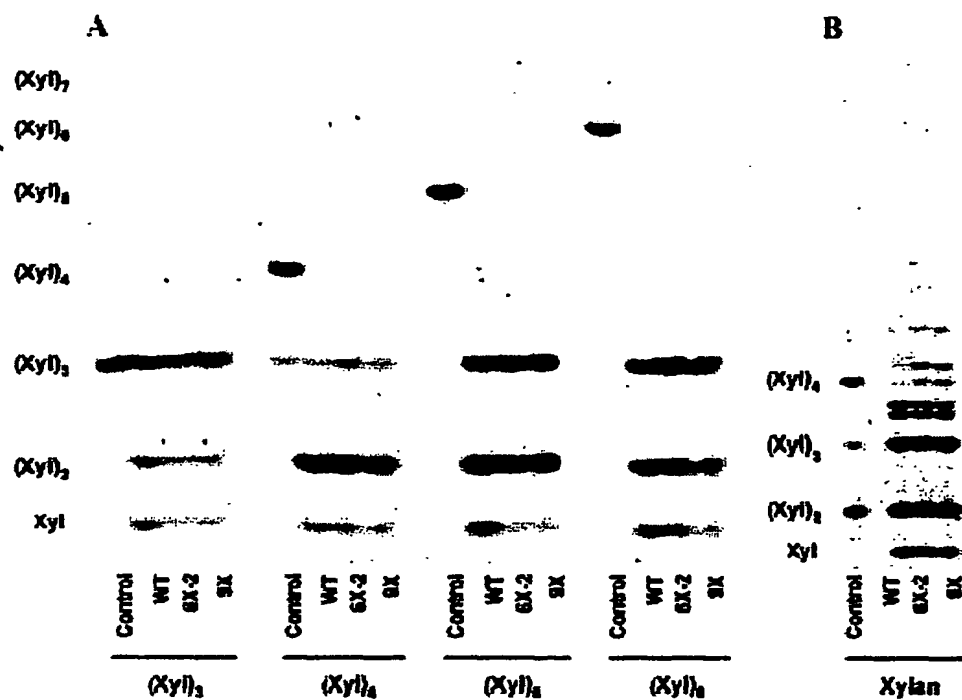


Figure 10

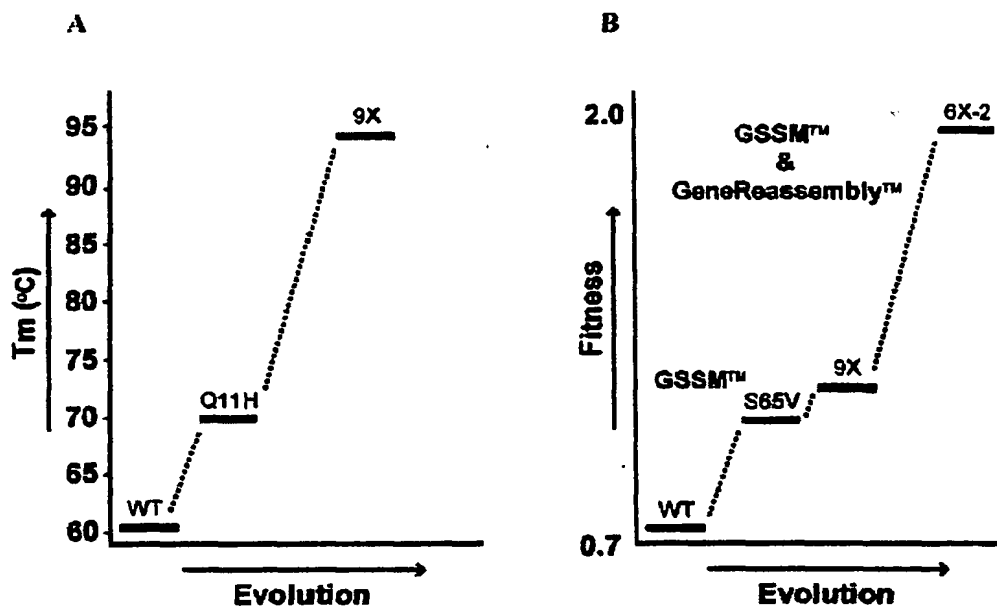


Figure 10

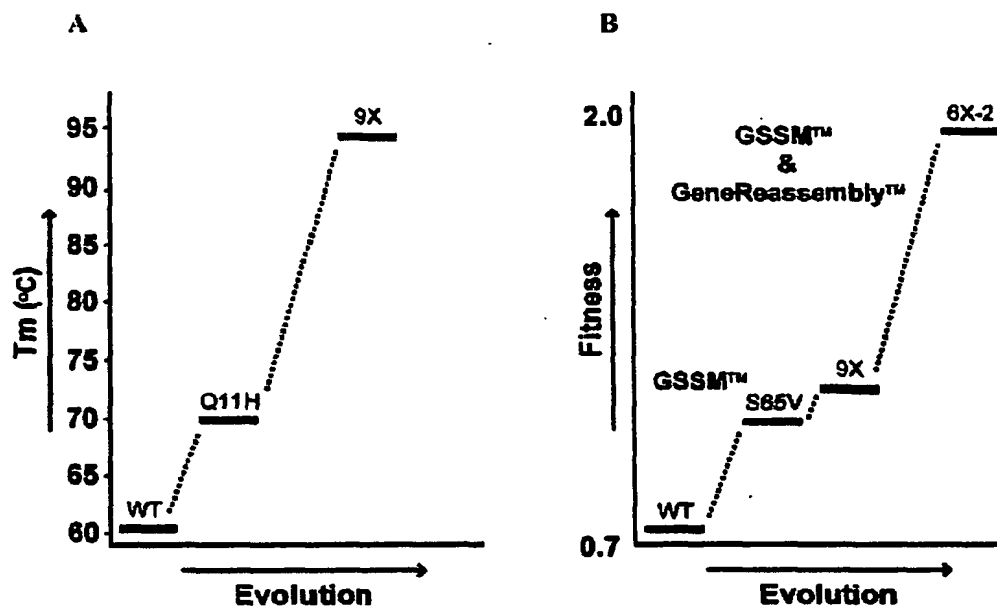
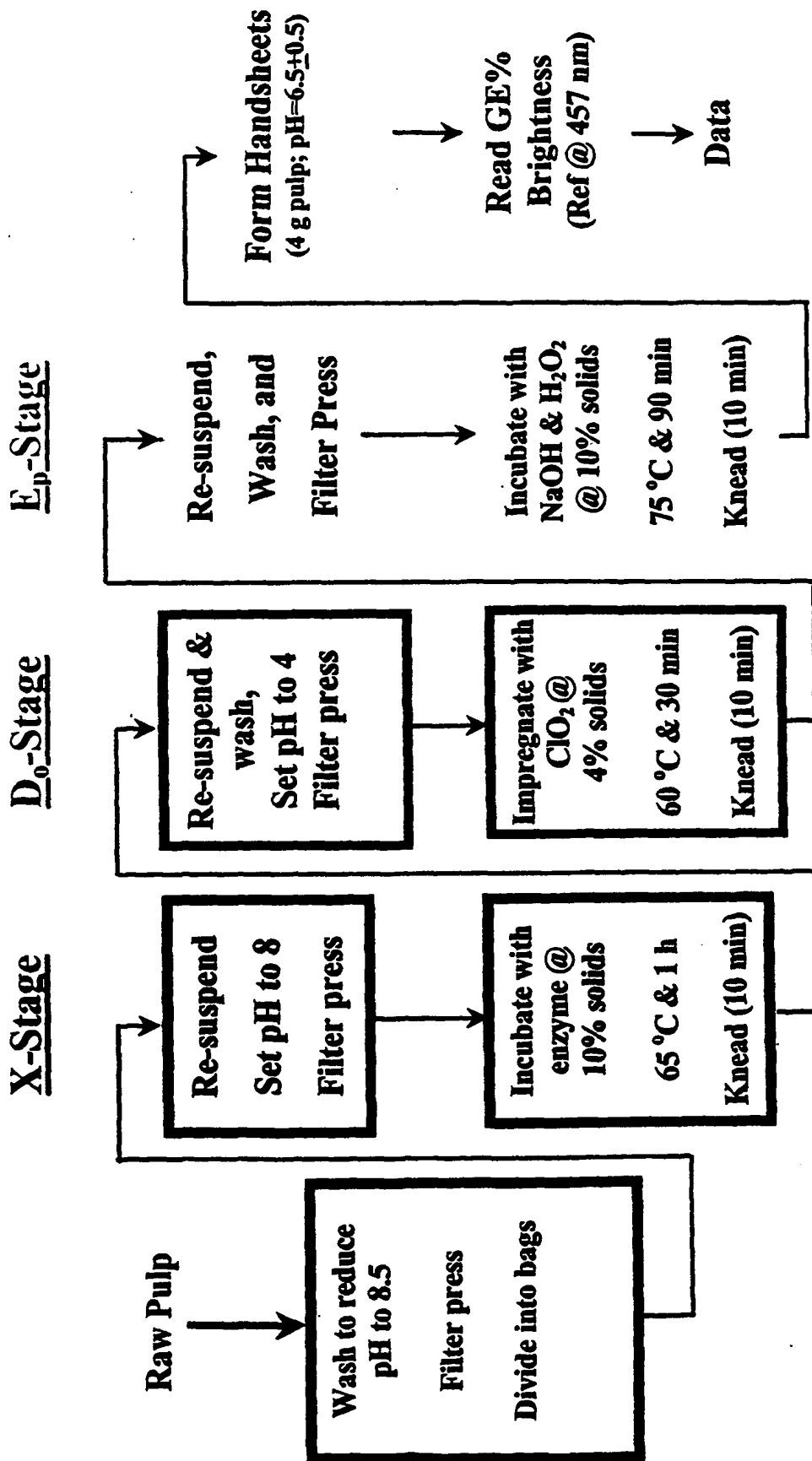


Fig. 11. Diversa Applications Lab Biobleaching Scheme



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